LED Messenger

ORDERCODE 43029

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!
You have bought a great, innovative product from Showtec.
The Showtec LED Messenger brings excitement to any venue.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec LED Messenger™ Product Guide

Warning..... 2
Safety-instructions..... 2
Operating Determinations..... 4
Rigging..... 4
Return Procedure..... 5
Claims..... 5

Description..... 6
Features and Overview 6
Backside..... 6

Installation..... 7

Set Up and Operation..... 7
Control Modes..... 7
One LED Messenger (Built-in Programs)..... 7
One LED Messenger (Auto Run Mode)..... 7
One LED Messenger (Sound Control)..... 7
Multiple LED Messengers (Master/Slave control)..... 7
Multiple LED Messengers (DMX control)..... 8
Fixture Linking..... 9
Data Cabling..... 9
Control Panel..... 10
Control Mode..... 10
DMX addressing..... 10
MENU OVERVIEW 11
- Built-in Programs 11
- 1. Operation by using the buttons on the device..... 11
- 2. Operation by using the IR remote control..... 12
- 3. Create/Edit Phrases by using the IR Remote control..... 12
- Auto Run Mode..... 13
- 1. Operation by using the buttons on the device..... 13
- 2. Operation by using the IR remote control..... 13
- Sound-control..... 13
- 1. Sound-control by using the buttons on the device..... 13
- 2. Sound-control by using the IR Remote control..... 13
- Master/Slave Mode..... 14
- 1. Operation by using the buttons on the device..... 14
- 2. Operation by using the IR remote control..... 14
- DMX Mode..... 14
- 1. Sound-control by using the buttons on the device..... 14
- 2. Sound-control by using the IR Remote control..... 14
DMX Channel Setting..... 15

Maintenance..... 16
Replacing the Fuse..... 16

Troubleshooting..... 16
No Light..... 16
No Response to DMX 17

Product Specifications..... 18

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- LED Messenger with cable 1,5m and hanging-bracket
- remote control and 1,5m cable with IR eye
- User manual

LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

WARNING

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device have to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not open the device and do not modify the device.
- Never use the device during thunderstorms, unplug the device immediately.
- Never look directly into the light source.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Avoid flames and do not put close to flammable liquids or gases.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Light effect must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the LED Messenger. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(meant especially for epileptics) !

OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 0.5 meter.

The maximum ambient temperature t_a = 45°C must never be exceeded.

The relative humidity must not exceed 50 % with an ambient temperature of 45° C.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer !

Procedure:

- If the LED Messenger is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the LED Messenger, with the mounting-bracket, to the trussing system.
- The LED Messenger must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the device, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Showtec LED Messenger is a light effect with high output and great effects.

- Multi programmable RGB graphic patterns
- Multi programmable RGB Text patterns
- Operating Modes: built-in programs, Auto run, DMX, Sound active, Master/Slave
- IR remote control
- DMX-controlled
- 3-pin DMX In and 3-pin DMX Out
- Clear LCD display for all settings
- Compact strong metal housing
- Power consumption: 60 Watt
- Beam angle: 15˚
- Light source: 192 LEDs (96 Red, 48 Green, 48 Blue)
- Music-controlled via built-in microphone
- Fuse 1A / 250V

Overview

Fig. 1

Backside

Fig. 2

1) Mountingbracket
2) Menu Buttons
3) LCD Display
4) Jack plug for remote control eye
5) 3-pin DMX In
6) IEC Powerconnector + Fuse 1A/250V
7) Earth connection
8) 3-pin DMX Out

Installation

Remove all packing materials from the LED Messenger. Check that all foam and plastic padding is removed. Connect all cables.

Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

When the mounting bracket (**1**) isn't fitted, you will first have to fit the mounting bracket in order to hang it from a ceiling. You can also place this device on the floor.

Connect the device to the main power supply. The device can be music-controlled by its built-in microphone.

Control Modes

There are 5 modes:

- Select built-in Text programs
- Auto run (visual effects)
- Sound-controlled
- Master/Slave
- DMX512

One LED Messenger (Built-in Text Programs)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Messenger is not connected by a DMX-cable, it functions as a stand-alone device. Please see page 11 for more information about the built-in programs.

One LED Messenger (Auto run visual effects)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the LED Messenger is not connected by a DMX-cable, it functions as a stand-alone device. Please see page 13 for more information about the Auto run visual effects.

One LED Messenger (Sound-control)

1.Plug the end of the electric mains power cord into a proper electric power supply socket.
2. Turn on the music. If the device is set to SOUN, then the LED Messenger will react to the beat of the music. Please see page 13 for more information about the sound-control options.

Multiple LED Messengers (Master/Slave control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Use a 3-p XLR cable to connect the LED Messenger.
The pins:

1. Earth
2. Signal -
3. Signal +

3. Link the units as shown in (Fig. 3), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on page 14 (Built-in Programs, Autorun or Music control). This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

Multiple Messengers (Master/Slave control)

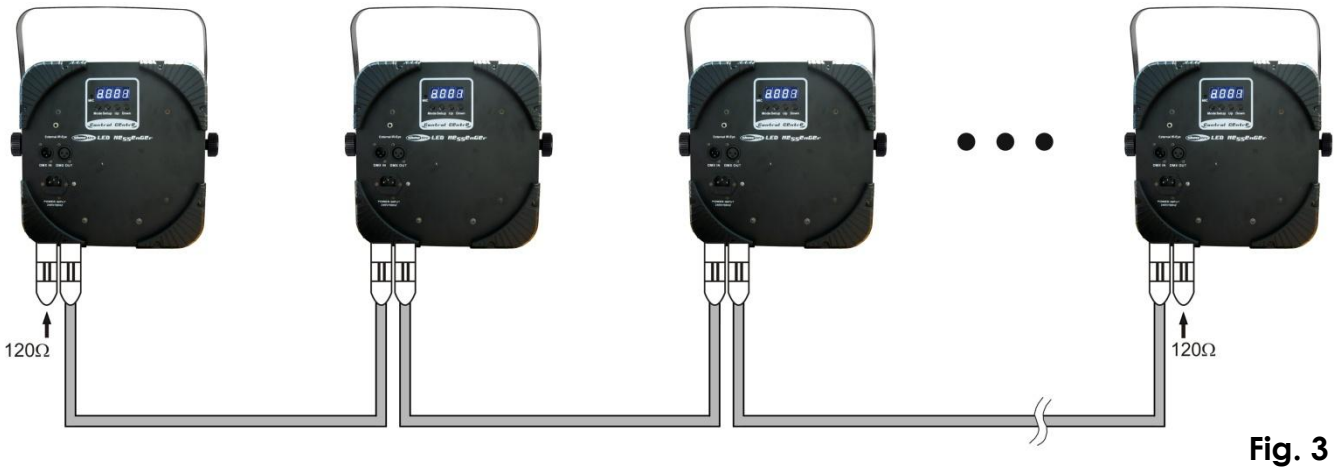


Fig. 3

Multiple LED Messenger (DMX Control)

1. Plug the end of the electric mains power cord into a proper electric power supply socket.
2. Use a 3-p XLR cable to connect the Messengers.
3. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
4. Supply electric power: Plug the end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

Multiple Messengers Pro Set Up

Max. 30 Messengers

Fig. 4

Note : Link all DMX cables and set dip switches before connecting electric power

6. Do not supply power before the whole system is set up and connected properly.
Design your show according to your DMX controller functions. See page 14 for more about DMX programming.

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of LED Messengers on a DMX data link: 30 fixtures

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio Certified DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3 p. > XLR/F 3 p.
  Ordercode FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m.).

Control Panel

Fig. 5

A. LED Display
B. MENU Button
C. SETUP Button
E. Up Button
F. Down Button

Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller.

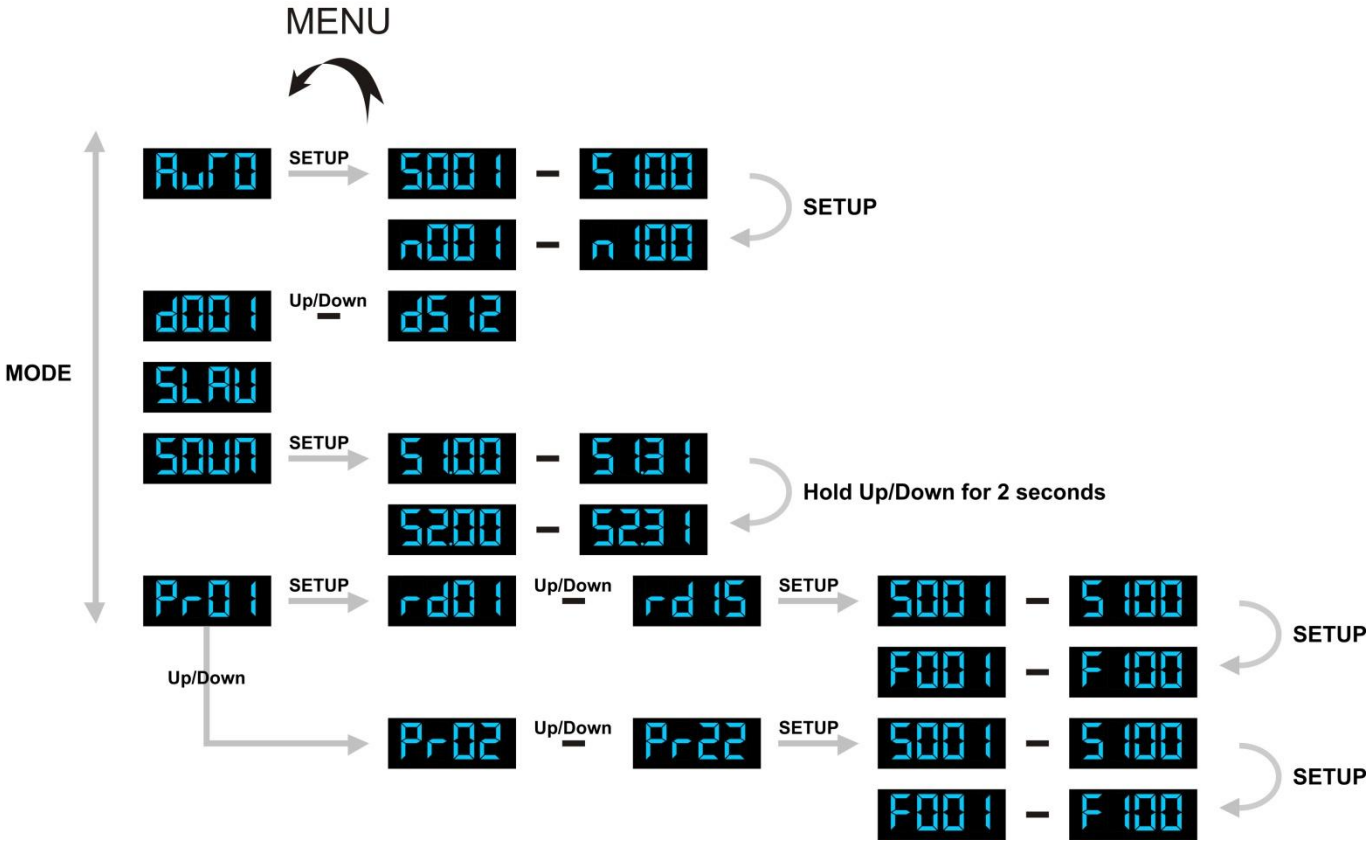
DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the LED Messenger will respond to the controller.
Please note when you use the controller, the unit has max. **3** channels.
When using multiple LED Messenger's, make sure you set the DMX addresses right.
Therefore, the DMX address of the first LED Messenger should be **1(A001)**; the DMX address of the second LED Messenger should be **1+3=4**; the DMX address of the third LED Messenger should be **4+3=7**, etc.
Please, be sure that you don't have any overlapping channels in order to control each LED Messenger correctly. If two or more LED Messenger's are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu d001)

Controlling:
After having addressed all LED Messenger's, you may now start operating these via your lighting controller.
Note: After switching on, the LED Messenger will automatically detect whether DMX 512 data is received or not.
The problem may be:
- The XLR cable from the controller is not connected with the input of the LED Messenger.
- The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

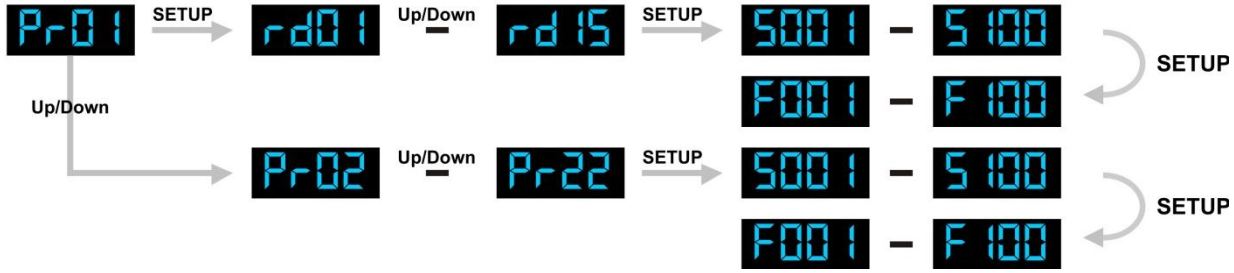
Menu Overview



Built-in Programs

Operation by using the buttons on the device

1) Press the MODE button, until the LED displays show **PrXX**.
You can select the built-in programs by pressing the Up/Down buttons.
Note: Pr is the abbreviation of programs.



Pr01: Selection of 15 phrases (10 built-in phrases and 5 user-defined phrases)

2) When you have pressed the MODE button and the display shows **Pr01**.
3) Press the **SET UP** button once, the display will show **rdXX**.
You can now select the built-in phrases by pressing the Up/Down buttons.

rd01 - **rd10** Built-in phrases（Happy Birthday, Merry Christmas, Happy Holidays, Happy Halloween, Happy Hanukkah, Happy Thanksgiving, Last Call, Party!!, Drink Specials, Congratulations）

rd11 - **rd15** are the phrases, which can be edited by the user.

4) Press the **SET UP** button twice, the display will show **SXXX**.
You can now set speed from **S001** to **S100** by pressing the Up/Down buttons.
5) Press the **SET UP** button three times, the display will show **FXXX**.
You can now set the flash frequencies from **F001** to **F100** by pressing the Up/Down buttons.

Pr02 - **Pr22**: Built-in effect programs

1) When you have pressed the MODE button and the display shows **Pr02** to **Pr22**.
2) Press the **SET UP** button once, the display will show **SXXX**.
You can now set speed from **S001** to **S100** by pressing the Up/Down buttons.
3) Press the **SET UP** button twice, the display will show **FXXX**.
You can now set the flash frequencies from **F001** to **F100** by pressing the Up/Down buttons.

Operation by using the IR remote control

1) If you select **Pr01,** press the **SELECT PROG** button (O) twice, the display will show **r d X X**.
2) By pressing the Up/Down buttons you can show any of the built-in (**rd01** - **rd10**) or user-defined (**rd11** - **rd15**) phrases.
3) Press the **SELECT PROG** button (O), the display will show **PrXX**.
By pressing the Up/Down buttons (O) you can select preferable programs from **Pr02** - **Pr22**.
4) Press **FLASH** button (O). This will **not** be shown on the display.
You can set the flash frequencies from **F001** to **F100** by pressing the Up/Down buttons.
5) Press **SPEED** button (O), the display will show **SXXX**.
You can set speed from **S001** to **S100** by pressing the Up/Down buttons.

Create/Edit Phrases by using the IR Remote control

Note: you can only use the IR remote to edit phrases.
Only **rd11** to **rd15** are able to be edited by a user.
The user is able to edit phrases, containing not more than 30 characters.

1) Press the **SET UP** button once, the display will show **rdXX**.
2) Use the Up/Down buttons to go to **rd11** - **rd15**. Here you create 5 user-defined phrases.

For example, if you want to create/edit **rd11**.
3) First press the **EDIT** button(O), the device will show **…** _ _ _.
4) Use buttons 2-9 to choose any character you want
This procedure to do this, is the same as writing a SMS on a cellphone.
For example, press the **2** button for once to choose A/a, press it twice to choose B/b, press it three times to choose C/c.
Press the **1** button to choose capitals (A) or small capitals (a).
Press the **0** button to choose blank space.

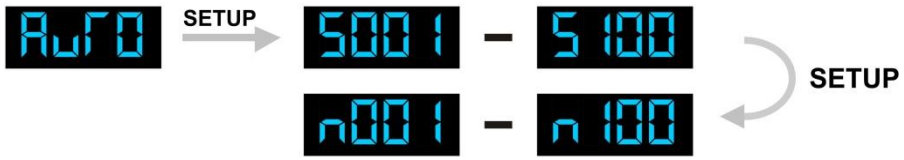
5) …_ _ _ means the device is waiting for the input of the first character of this line.
A… _ _ means the device is waiting for the input of the second character of this line.
AB…_ means the device is waiting for the input of the third character of this line.
ABC… means the device is waiting for the input of the forth character of this line.
ABCD means the input of the 4 characters is successful.
6) If you find a character that is wrong, you can press the **BACK SPACE** button (O) to delete the characters one by one starting from right to left. When you have entered the correct character, after waiting for 2-3 seconds, the cursor will automatically jump to another line **…** _ _ _.
Repeat this procedure to edit another line or phrase.
7) When you have finished editing the entire phrase, your phrase will be automatically stored in the memory.

When the device is in auto run mode, DMX mode or Master/Slave mode, the stored phrases can be recalled and played back.

Auto Run Mode

Operation by using the buttons on the device

1) Press the **MODE** button on the device, until the display shows AUTO. The device is now in auto run mode.



2) Press **SET UP** button, until the display shows **SXXX**. You can set the running speed for auto run mode. Press the Up/Down buttons to set the running speed from **S001** - **S100**.
3) Press **SET UP** button, until the display shows **NXXX**. You can set the running frequency for auto run mode. The frequency for auto run mode means: the running time for each program. Press the Up/Down buttons to set the running time from **N001** - **N100**.

Operation by using the IR remote control

1) Press the **AUTO RUN** button (O) on the remote once, until the display shows **AUTO**.
2) Press the **AUTO RUN** button on the remote twice, until the display shows **SXXX**. You can now set the running speed for Auto Run Mode from **S001** - **S100**.
3) Press the **AUTO RUN** button on the remote tree times, until the display shows **NXXX**. You can now set the running frequency for Auto Run Mode from **N001** - **N100**.
4) Press the **AUTO RUN** button on the remote to return to Auto Run Mode.

Sound-control

Sound-control by using the buttons on the device

1) Press the **MODE** button on the device, until the display shows SOUN. Turn on the music and the LED Messenger will react to the beat of the music.

The difference between **S1.00** - **S1.31** and **S2.00** – **S2.31**.
Menu **S1:** The LEDs will keep running for 5 seconds after the sound has stopped.
Menu **S2:** The LEDs immediately stop running when the sound stops.

2) Press the Up/Down buttons to adjust the sound sensitivity level from **S1.00** - **S1.31**. 00 being the least sensitive and 31 being the most sensitive.
3) When you hold down the Up or Down button for 2 seconds the menu jumps to **S2.XX**. Press the Up/Down buttons to adjust the sound sensitivity level from **S2.00** – **S2.31**.

Sound-control by using the IR Remote control

1) Press the **SOUND ACTIVE** button (O) and the display will show **SU.XX**.
2) Press the Up/Down buttons to adjust the sound sensitivity level from **S1.00** - **S1.31**. 00 being the least sensitive and 31 being the most sensitive.
3) When you hold down the Up or Down button for 2 seconds the menu jumps to **S2.XX**. Press the Up/Down buttons to adjust the sound sensitivity level from **S2.00** – **S2.31**.

Master/Slave Mode

Master/Slave Operation by using the buttons on the device

1) In order to select MASTER/SLAVE mode, press the **MODE** button and select **SLAV**.

Master/Slave Operation by using the IR remote control

1) In order to select MASTER/SLAVE mode, press the **SLAVE** button (O) on the remote.
You can use the same functions on the master device as described on page 11-13 (Built-in Programs, Auto Run or Music control).
This means on the master device you can set your desired operation Mode and all slave devices will react the same as the master device.

Note: Press the **BLACK OUT** button (O) to turn on/off the device.
After turning the unit off and turning it on again, the built-in programs will start running at the same position, as when device was turned off.

DMX Mode

DMX Operation by using the buttons on the device

1) Press the **MODE** button to select DMX mode, until the display will show **dXXX**.
2) Press the Up/Down buttons to set the DMX address from **d001** – **d512**.

DMX Operation by using the IR remote control

1) To set a certain DMX value, press the **SET ADDR** button (O), until the projected LEDs show **dXXX**.
2) Press **0** - **9** on the remote to set the DMX value. You can set the DMX address from **d001** – **d512**.

For example

d … _ _ means you can enter the value in hundreds.
d 0 … _ means you can enter the value in tens.
d 0 0 … means you can enter the value from 0-9.
d 0 0 1 means DMX value is entered successfully.

If you have entered a DMX address that is below 512, the LCD display will show **PASS** after one second. Otherwise the display will show **FAIL** and the address is not stored.
3) Press the **DMX MODE** button (O) to show the current DMX address.

DMX Channel Setting

Channel 1 – Built-in Programs

0	Off
1-10	Program 1
11-21	Program 2
22-32	Program 3
33-43	Program 4
44-54	Program 5
55-65	Program 6
66-76	Program 7
77-87	Program 8
88-98	Program 9
99-109	Program 10
110-120	Program 11
121-131	Program 12
132-142	Program 13
143-153	Program 14
154-164	Program 15
165-175	Program 16
176-186	Program 17
187-197	Program 18
198-208	Program 19
209-219	Program 20
220-230	Program 21
231-241	Program 22
242-255	Sound-controlled

Channel 2 – Speed

0-255	Speed from slow to fast

Channel 3 – Flash Speed

0-255	Flash speed from slow to fast

When you are in DMX mode and there is no DMX signal, the dot of **d.XXX** will flash continuously, in order to remind you to connect DMX signal.

Maintenance

The Showtec LED Messenger requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. Keep connections clean. Disconnect electric power, and then wipe the connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a screwdriver into the slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

1. If the device does not operate properly, unplug the device.
2. Check the power from the wall, the fuse, all cables etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If you are unable to determine the cause of the problem, do not open the LED Messenger, as this may damage the unit and the warranty will become void.
5. Return the device to your Showtec dealer.

No Light

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply or the LEDs.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the LED Messenger to your Showtec dealer.
3. The fuse. Replace the fuse. See page 8 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

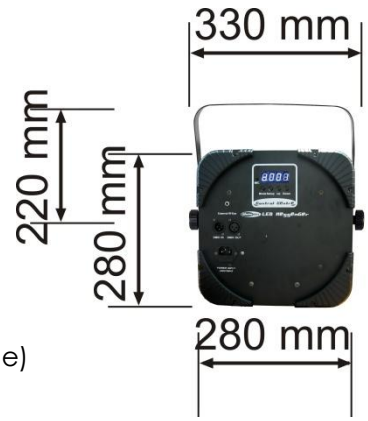
1. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.

2. Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products ? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	· Check that power is switched on and cables are plugged in.
	Primary fuse blown.	· Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	· Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	· Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	· Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	· Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	· Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	· Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	· Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. · Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	· Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.
	LEDs damaged	· Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	· Disconnect fixture. Check settings and correct if necessary.

Product Specification

Model: Showtec LED Messenger
Power: 240V-50Hz (CE)
Power consumption: 60 Watt
Multi programmable RGB graphic patterns
Multi programmable RGB Text patterns
IR remote control
DMX-controlled
3-pin DMX In and 3-pin DMX Out
Compact strong metal housing
Beam angle: 15degree
Light source: 192 LEDs (96 Red, 48 Green, 48 Blue)
Music-controlled via built-in microphone
Fuse 1A / 250V
Dimensions: 320x280x280mm (LxWxH)
Weight: 4,5 kg



Minimum distance:
Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 0.8m

Design and product specifications are subject to change without prior notice.

CE

Website: www.Showtec.info
Email: service@highlite.nl

© 2009 Showtec.